Scientific and Technical Information Center

SEARCH REQUEST FORM

	SEARCH REQUES	I FORM
Lequester's Full Name: MART Unit: 1624 Pho Location (Bldg/Room#): 5 CO/	ne Number: 2- 0663 (Mailbox #): 5C18 Results	iner # : 59193 Date: 111105 Serial Number: 10676919 Format Preferred (circle): PAPER DISK
o ensure an efficient and quality sear	ch, please attach a copy of the cover sheet	, claims, and abstract or fill out the following:
itle of Invention:		
nventors (please provide full name	es):	
Earliest Priority Date:		
lanead enacine or estructures kennyords.	ne search topic, and describe as specifically synonyms, acronyms, and registry numbers Il meaning. Give examples or relevant cita	as possible the subject matter to be searched. Include the , and combine with the concept or utility of the invention. tions, authors, etc., if known.
For Sequence Searches Only* Please ppropriate serial number.	include all pertinent information (parent, c	thild, divisional, or issued patent numbers) along with the
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
earcher:		STNDialog
earcher Phone #:	•	Questel/Orbit Lexis/Nexis
earcher Location:	Structure (#)	Westlaw WWW/Internet
Date Searcher Picked Up:	Bibliographic	in-house sequence systems
Date Completed:	Litigation	CommercialOligomerScore/Length InterferenceSPDIEncode/Transl
	Eulganon	Other (specify)
Searcher Prep & Review Time:	- runtext	

=> d his ful

L1

(FILE 'HOME' ENTERED AT 16:17:33 ON 08 NOV 2005)

FILE 'REGISTRY' ENTERED AT 16:17:40 ON 08 NOV 2005

FILE 'REGISTRY' ENTERED AT 16:17:49 ON 08 NOV 2005

STR

L2 O SEA SSS SAM L1 L3

2 SEA SSS FUL L1

D SCA

FILE 'HCAPLUS' ENTERED AT 16:20:57 ON 08 NOV 2005

5 SEA ABB=ON PLU=ON L3 L4

FILE 'BEILSTEIN' ENTERED AT 16:21:11 ON 08 NOV 2005 0 SEA SSS FUL L1 L5

FILE 'MARPAT' ENTERED AT 16:21:26 ON 08 NOV 2005

STR L1 L6

L7 O SEA SSS SAM L6

1.8 1 SEA SSS FUL L6

1.9 1 SEA ABB=ON PLU=ON L8 NOT L4

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

7 NOV 2005 HIGHEST RN 866913-62-4 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 7 NOV 2005 HIGHEST RN 866913-62-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from * * the IDE default display format and the ED field has been added, * effective March 20, 2005. A new display format, IDERL, is now * available and contains the CA role and document type information.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 8 Nov 2005 VOL 143 ISS 20 FILE LAST UPDATED: 7 Nov 2005 (20051107/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BEILSTEIN
FILE LAST UPDATED ON OCTOBER 10, 2005

FILE COVERS 1771 TO 2005.
FILE CONTAINS 9,363,954 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

- * PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.
- * SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE
- * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE
- * ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.
- * FOR PRICE INFORMATION SEE HELP COST

NEW

- * PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.
- * NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.

FILE MARPAT

FILE CONTENT: 1988-PRESENT (VOL 143 ISS 18) (20051028/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

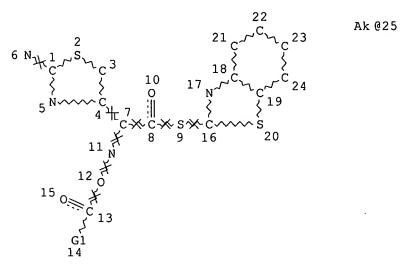
US 6924313 02 AUG 2005
DE 1020040544 04 AUG 2005
EP 1568694 31 AUG 2005
JP 2005213127 11 AUG 2005
WO 2005090358 29 SEP 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> d que 14 L1

1 STR



VAR G1=H/25 NODE ATTRIBUTES: CONNECT IS E1 RC AT 25 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L3 2 SEA FILE=REGISTRY SSS FUL L1

L4 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

=> d que stat 15 L1 STR

VAR G1=H/25 NODE ATTRIBUTES: CONNECT IS E1 RC AT 25 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE L5 0 SEA FILE=BEILSTEIN SSS FUL L1

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.04

=> d que stat 19 L1 STR

VAR G1=H/25 NODE ATTRIBUTES: CONNECT IS E1 RC AT 25 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

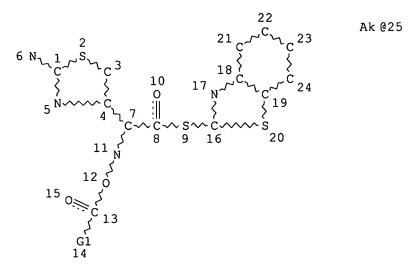
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L3 2 SEA FILE=REGISTRY SSS FUL L1

L4 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

L6 STR



VAR G1=H/25 NODE ATTRIBUTES: NSPEC IS RC AT 6 CONNECT IS E1 RC AT 25 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L8 1 SEA FILE=MARPAT SSS FUL L6

L9 1 SEA FILE=MARPAT ABB=ON PLU=ON L8 NOT L4

=> d ibib abs hitstr 14 1-5; d ibib abs qhit 19 1
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L4 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:1036707 HCAPLUS

DOCUMENT NUMBER:

142:23139

TITLE:

Process for preparing Cefdinir

Dandala, Ramesh; Korrapati, V. V. Prasada Rao; INVENTOR(S):

Sivakumaran, Meenakhshisunderam

PATENT ASSIGNEE(S): India

SOURCE: U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004242557	A1	20041202	US 2003-676914		20031001
ORITY APPLN. INFO.:			IN 2003-MA441 A	Α	20030602

PRIOR OTHER SOURCE(S):

CASREACT 142:23139

GI

$$H_{2}N$$
 S $CO_{2}H$ III

A process was disclosed for the preparation of the intermediate thioester, AB 2-mercapto-benzothiazolyl (Z)-2-(2-amino-4-thiazolyl)-2-

acetyloxyiminoacetate (I), and its subsequent amidation reaction with 7-amino-3-vinyl-3-cephem-4-carboxylic acid II (R = H) or a corresponding cephem ester, such as II (R = C6H4-4-OMe, C6H4-4-NO2, CHPh2), to form the β -lactam antibiotic Cefdinir (III).

IT 104797-47-9P, 2-Mercaptobenzothiazolyl (Z)-2-(2-amino-4-thiazolyl)-2-acetyloxyiminoacetate

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for the preparation of Cefdinir via the intermediate ester, 2-mercaptobenzothiazolyl (Z)-2-(2-amino-4-thiazolyl)-2-

acetyloxyiminoacetate)

RN 104797-47-9 HCAPLUS

4-Thiazoleethanethioic acid, α -[(acetyloxy)imino]-2-amino-, CN S-2-benzothiazolyl ester, (αZ) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:162698 HCAPLUS

DOCUMENT NUMBER:

140:217437

TITLE:

Process for the preparation of cefdinir intermediate

INVENTOR(S):

Kremminger, Peter; Wolf, Siegfried; Ludescher,

Johannes

PATENT ASSIGNEE(S):

);

SOURCE:

Sandoz G.m.b.H., Austria PCT Int. Appl., 37 pp.

CODEN: PIXXD2

1

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO. KIND DATE							APPLICATION NO.				DATE					
WO	2004	 0166	23		A1 20040226		WO 2003-EP8944				4 4	20030812					
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LT,	LU,
		LV,	MA,	MD,	MK,	MN,	MX,	NI,	NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,
		SC,	SE,	SG,	SK,	SY,	ТJ,	TM,	TN,	TR,	TT,	UA,	US,	UZ,	VC,	VN,	YU,
		ZA,	zw														
	RW:	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,
		DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,
		SI,	SK,	TR													
EP	1554	289			A1		2005	0720		EP 2	003-	7877	71	20030812			
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,									
PRIORIT	PRIORITY APPLN. INFO.:							AT 2	002-	1223			A 2	0020	813		
								AT 2	002-	1588		i	A 2	0021	018		
										WO 2	003-	EP89	4 4	1	W 2	0030	812
OTHER SOURCE(S): M					MAR	MARPAT 140:217437											

GI

AB A process is claimed for the synthesis of 7-[2-(2-aminothiazol-4-yl)-2-(methylcarbonyloxyimino)acetamido]-3-vinyl-cephem-4-carboxylic acid (I), in the form of a crystalline salt, such as I.HX [X = Cl-, HSO4-,RYO3-, H2NSO3-, 1/2(SO4)2-; R = alkyl, aryl; Y = S, P], and their use in the preparation of pure cefdinir. Thus, a reactive derivative of syn-2-(2-aminothiazol-4-yl)2-(methylcarbonyloxyimino)-acetic acid, e.g., syn-2-(2-aminothiazol-4-yl)2-(methylcarbonyloxyimino)-acetic acid mercapto-benzothiazolyl ester is reacted with 7-amino-3-vinyl-3-cephem-4-carboxylic acid in silylated form to obtain I, in which the carboxylic acid is optionally silylated. In another aspect, the present invention relates to salt of I, optionally in crystalline form, wherein the salt is selected from the group consisting of phosphate, hydrogen phosphate, mesylate, tosylate, sulfate, hydrogen sulfate and sulfamate.

IT 104797-47-9P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process and intermediates in the production of cefdinir)

RN 104797-47-9 HCAPLUS

CN 4-Thiazoleethanethioic acid, α -[(acetyloxy)imino]-2-amino-, S-2-benzothiazolyl ester, (α Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

8

ACCESSION NUMBER: 1995:428755 HCAPLUS

DOCUMENT NUMBER: 122:187252

TITLE: Preparation of (oxopyrrolidinylidenemethyl)cephalospor

in derivatives and related compounds as

antibacterials.

INVENTOR(S): Angehrn, Peter; Wei, Chung-Chen PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.

SOURCE: Eur. Pat. Appl., 149 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIN	D DATE	APPLICATION NO.	DATE
		10041010	DD 1004 104007	10040330
EP 620225	A1	19941019	EP 1994-104997	19940330
EP 620225	B1	20021113		
R: AT	BE, CH, DE,	DK, ES, FR,	GR, IE, IT, LI, LU,	MC, NL, PT, SE
US 5523400	Α	19960604	US 1994-213562	19940321
PRIORITY APPLN.	INFO.:		US 1993-48688	A 19930416
			US 1994-213562	A 19940321
PRIORITY APPLN.	INFO.:			

OTHER SOURCE(S):

MARPAT 122:187252

GI

Title compds. [I; R1 = acyl derived from a carboxylic acid; R2 = H, OH, AB (substituted) alkyl, alkylcarbonyl, alkylsulfonyl, cycloalkyl, alkoxy, alkenyl, cycloalkenyl, alkynyl, aryloxy, aralkoxy, heterocyclyl, etc.; n = 0, 1, 2] as well as readily hydrolyzable esters, pharmaceutically acceptable salts, and hydrates thereof, were prepared Thus, $[6R-[3(E), 6\alpha, 7\beta]]-3-[(2-oxo-1-phenyl)-3$ pyrrolidinylidenemethyl]-7-amino-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid trifluoroacetic acid salt, 2-(2-aminothiazol-4-yl)-(Z)-2methoxyiminoacetic acid 2-benzothiazolyl ester, and NaHCO3 were stirred in THF/H2O to give 98% title compound II. Selected I showed min. inhibitory concns. of 4-8 mg/L against Pseudomonas aeruginosa.

ΙI

TΤ 104797-47-9 161676-39-7

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of (oxopyrrolidinylidenemethyl)cephalosporin derivs. and related compds. as antibacterials)

RN 104797-47-9 HCAPLUS

4-Thiazoleethanethioic acid, α -[(acetyloxy)imino]-2-amino-, CN S-2-benzothiazolyl ester, (\alpha Z) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 161676-39-7 HCAPLUS

CN 4-Thiazoleethanethioic acid, 2-amino- α -[(2,2-dimethyl-1oxopropoxy)imino]-, S-2-benzothiazolyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

$$H_2N$$
 N
 S
 S
 $Bu-t$

L4ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1986:590780 HCAPLUS

DOCUMENT NUMBER:

105:190780

TITLE:

Aminothiazolylacetic acid derivatives

INVENTOR(S):

Hebeisen, Paul

PATENT ASSIGNEE(S):

Hoffmann-La Roche, F., und Co. A.-G., Switz.

SOURCE:

Eur. Pat. Appl., 7 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT NO.			KIN)	DATE		API	PLICATIO	N NO.	DATE	
EP	185221			A2	-	1986	0625	EP	1985-11	 4900	 198511	 25
EP	185221			A 3		1987	0819					
EP	185221			В1		1990	0926					
	R: AT,	BE,	CH,	DE,	FR,	GB,	IT,	LI, L	J, NL, SI	E		
CA	1263399			A1		1989	1128	CA	1985-49	5059	198511	12
ΑT	56963			E		1990	1015	AT	1985-11	4900	198511	25
CN	85108996	5		Α		1986	0610	CN	1985-10	8996	198512	07
CN	1013675			В		1991	0828					
ZA	8509536			Α		1986	0827	ZA	1985-95	36	198512	12

AU 8551194	A1	19860626	AU 1985-51194		19851213
AU 581046	B2	19890209			
IL 77329	A1	19900209	IL 1985-77329		19851213
HU 41015	A2	19870330	HU 1985-4794		19851216
ни 195958	В	19880829			
DK 8505911	Α	19860620	DK 1985-5911		19851218
JP 61145170	A2	19860702	JP 1985-283148		19851218
JP 07030057	B4	19950405			
US 4888429	Α	19891219	US 1988-258062		19881017
PRIORITY APPLN. INFO.:		•	CH 1984-6008	Α	19841219
			EP 1985-114900	Α	19851125
			US 1985-807702	A1	19851211
~ =					

GΙ

AB Oximes I (M = alkali metal) were prepared by treating II (R = alkyl) with H2C:CHCH2O-M+ in allyl alc. I were then converted in 5 steps into mono-β-lactam, cephalosporin, and penicillin derivs., the amino groups on the β-lactam rings of which have a group Q (R3 = H, alkyl, alkenyl, CH2CO2R4, CMe2CO2R4; R4 = H, easily hydrolyzable group). Thus, syn-II (R = Et) was transesterified with H2C:CHCH2OK to give syn-I (M = K) which was converted into 2-benzothiazolyl 2-(2-amino-4-thiazolyl)-2-(syn-acetoxyimino)thioacetate. This reacted with 7-amino-3-[[(2,5-dihydro-6-hydroxy-2-methyl-5-oxo-as-triazin-3-yl)thio]methyl]-3-cephem-4-carboxylic acid to give di-Na 7-[2-(2-amino-4-thiazolyl)-2-(syn-acetoxyimino)acetamido]-3-[[(2,5-dihydro-6-hydroxy-2-methyl-5-oxo-as-triazin-3-yl)thio]methyl]-3-cephem-4-carboxylate, the acetoxyimino group of which was hydrolyzed to the :NOH group in 77.5% yield.

IT 104797-47-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and acylation by, of aminocephemcarboxylic acid derivative) 104797-47-9 HCAPLUS

RN 104797-47-9 HCAPLUS CN 4-Thiazoleethanethioic acid, α -[(acetyloxy)imino]-2-amino-,

S-2-benzothiazolyl ester, (αZ) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:572176 HCAPLUS

DOCUMENT NUMBER: 105:172176

TITLE: Intermediates for the preparation of cephalosporins

INVENTOR(S): Furlenmeier, Andre

Hoffmann-La Roche, F., und Co. A.-G., Switz. PATENT ASSIGNEE(S):

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	TENT N	10.			KIN)	DATE		AF	PLICA	MOITA	NO.		DATE
						-								
EP	18522	20			A2		1986	0625	E	1985	5-114	898		19851125
EP	18522	20			A3		1987	0902						
	R:	AT,	BE,	CH,	DE,	FR	, GB,	IT,	LI, N	ΙL				
JP	61145	5187			A2		19860	0702	JE	1985	-283	147		19851218
PRIORIT	Y APPI	LN. 3	INFO	.:					CH	1984	1-600	9	Α	19841219
CT														

AB Cephems I (R = alkanoyl) were prepared as intermediates for the cephalosporin analog I (R = H), with antibiotic and antibacterial properties (no data). syn-I (R = Ac) was prepared in 5 steps from KOCH2CH:CH2 and Et 2-(2-amino-4-thiazoly1)-2-syn-hydroxaminoacetate. Saponification of I (R = Ac) with NaOH in H2O-MeOH gave 77.5% syn-I (R = H)

di-Na

GI

salt.

IT 104797-47-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and acylation by, of aminocephemcarboxylic acid derivative)

RN 104797-47-9 HCAPLUS

4-Thiazoleethanethioic acid, α -[(acetyloxy)imino]-2-amino-, CN S-2-benzothiazolyl ester, (αZ) - (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 1 OF 1 MARPAT COPYRIGHT 2005 ACS on STN L9

ACCESSION NUMBER:

126:238249 MARPAT

TITLE:

Preparation of cephalosporin derivatives for use as

antibacterial agents

INVENTOR(S):

Hebeisen, Paul; Stalder, Henri; Heinze-Krauss, Ingrid;

Weiss, Urs; Richter, Hans; Yiannikouros, George

Petros; Runtz, Valeri

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche Ag, Switz.

SOURCE:

Eur. Pat. Appl., 68 pp.

CODEN: EPXXDW Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
EP 761673	A1	19970312	EP 1996-113998 19960902
R: AT, BE, PT, SE	CH, DE	, DK, ES,	FI, FR, GB, GR, IE, IT, LI, LU, MC, NL,
ZA 9607515	A	19970312	ZA 1996-7515 19950905
US 5804577	Α	19980908	US 1996-708161 19960827
CA 2184971	AA	19970313	CA 1996-2184971 19960906
AU 9665506	A1	19970320	AU 1996-65506 19960906
AU 709077	B2	19990819	
NO 9603805	Α	19970313	NO 1996-3805 19960911
CN 1150950	Α	19970604	CN 1996-112538 19960911
CN 1060778	В	20010117	
JP 09132578	A2	19970520	JP 1996-242253 19960912
BR 9603734	Α	19980526	BR 1996-3734 19960912
KR 209839	B1	19990715	KR 1996-39493 19960912
PRIORITY APPLN. INFO	.:		EP 1995-114303 19950912
			EP 1995-114304 19950912
GI			

AB Cephalosporin derivs. I [R1 = 2-, 3-, 4-hydroxyphenyl, 2-, 3-methoxyphenyl, 4-carboxyphenyl, 4-carbamoylphenyl, 3-trifluoromethylphenyl, 2-, 3-fluorophenyl, 3-nitrophenyl, 3-fluoro-2-hydroxyphenyl, 2-fluoro-4-hydroxyphenyl, 3-fluoro-2-hydroxyphenyl, 3-, 4-dihydroxyphenyl, benzyl, 3-hydroxybenzyl, 4-aminobenzyl, 2-, 3- and 4-fluorobenzyl, 2-, 3-, 4-methoxybenzyl, 4-nitrobenzyl, 4-carboxybenyl, 4-trifluoromethylbenzyl, 1-, 2-naphthyl, pyridinyl, pyrimidyl, pyrazinyl, pyridazinyl, piperidinyl, thiadiazolyl, oxo-tetrahydrofuranyl, thienyl, tetrazolylalkyl, tetrahydrofuranylalkyl, thienylalkyl, benzimidazolylalkyl, -CHR-Ph; R = carboxy, esterified carboxyl were prepared for use as antibacterial agents. Thus, I (R1 = 4-hydroxyphenyl), which was prepared via a series of steps starting from Br(CH2)2CHBrCOCl, 4-H2NC6H4OCO2CMe3, ester II (R2 = CO2CMe3), and amine III (R3 = CPh3), showed a MIC value of 0.25 μg/mL when tested against S. aureus 6538 as compared to 0.5 μg/mL for cefdinir and 4 μg/mL for ceftriaxone.

MSTR 3

. 14

$$G1 = phthalimido$$

$$G2 = 14$$

G3 = 35

$$S_{N}$$
 S_{35}

G5 = COMe Patent location:

claim 21